

## Abstract

A cell re-sequencer restores cell sequence in multipath ATM switches by using per-VC logical queues that store only cells belonging to a same VC. The re-sequencer can reduce processing time to a shorter value than those of conventional re-sequencer mechanisms. Also, this re-sequencer has no restriction on the peak rate of VCs and no arbitration functions to select an output cell. The re-sequencer comprises a RAM buffer, a CAM /RAM table, a controller, etc.